

**The Knowledge Bank at The Ohio State University**  
**Ohio State Engineer**

**Title:** Back Matter

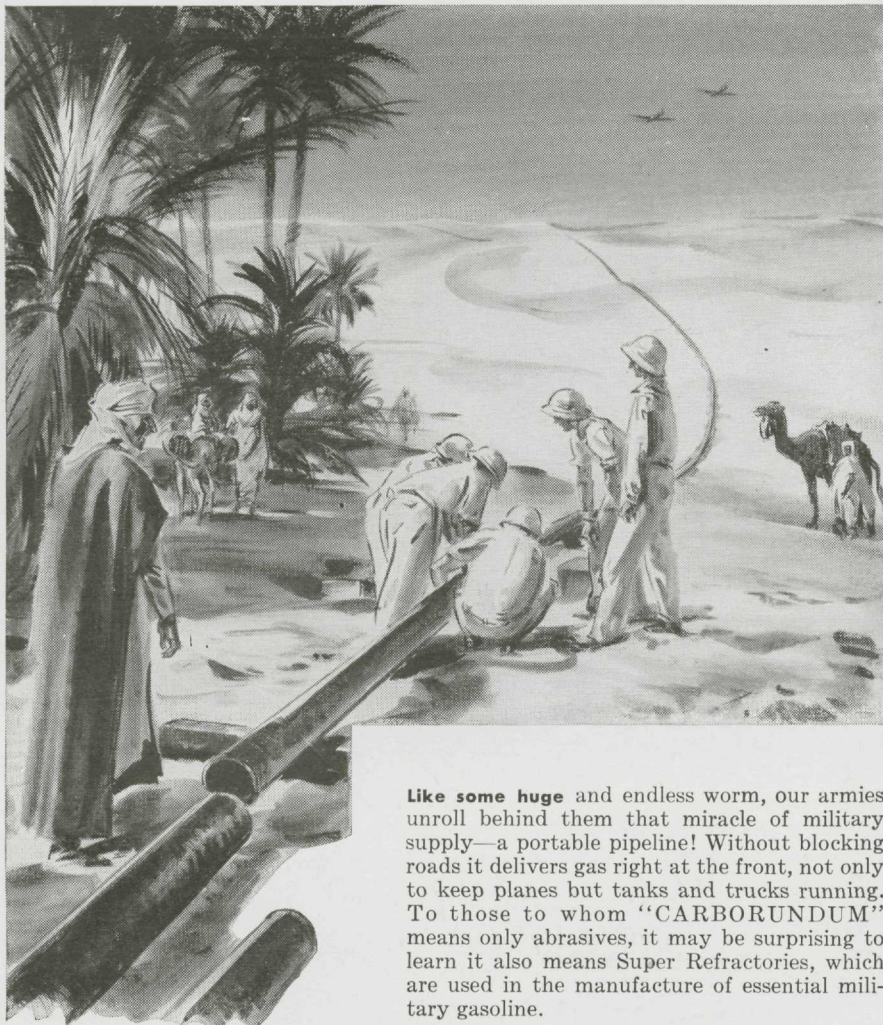
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# *The early worm that feeds War Birds!*

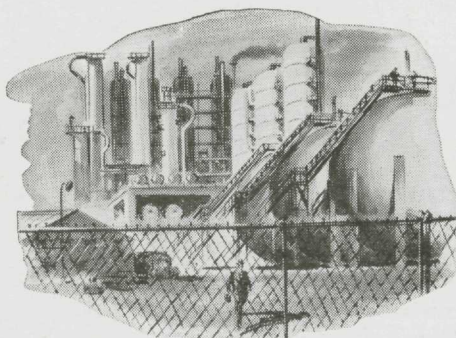


Like some huge and endless worm, our armies unroll behind them that miracle of military supply—a portable pipeline! Without blocking roads it delivers gas right at the front, not only to keep planes but tanks and trucks running. To those to whom "CARBORUNDUM" means only abrasives, it may be surprising to learn it also means Super Refractories, which are used in the manufacture of essential military gasoline.

In giant oil refineries like this, high test gasoline for our armed services is produced with the help of Super Refractories by "CARBORUNDUM." And they further assist the war effort by increasing the production and efficiency of heat treating furnaces, boiler furnaces, aluminum, magnesium and other non-ferrous melting furnaces, gas generators, etc. For young engineers who want to work in industry, we suggest a career with "CARBORUNDUM." If interested,



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# Campus News

RESEARCH AND ENGINEERING KEEP GENERAL ELECTRIC YEARS AHEAD

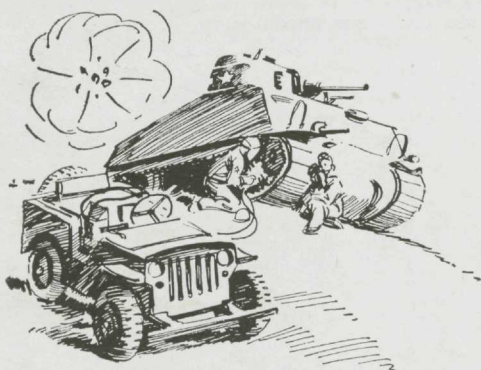


## WIZARD

If you had a G-E differential analyzer in your room, you could get your calculus assignment done and still make that nine o'clock movie. You might even get rid of all those back assignments that have been piling up. In only a few days the analyzer can solve problems that might take years to work by conventional methods.

Working with differential equations, this machine can solve as many as fourteen simultaneous integrations at once. There are four input tables and two output tables. As the variables in the equation are being solved, the shafts rotate, moving pens which in turn plot accurate curves. And you've got a graphic solution of your problem.

The analyzer may never actually help you with your studies—it's too big and complicated. But it does help G-E engineers in solving many problems—radio, hydro-dynamic flow, airplane stress, speed governors. The answers have important applications in war work.



## REPAIR SHOP

Somewhere—near a battlefield—a war-weary tank stands waiting for repairs. A jeep bounces up, and a welding crew gets out ready to begin work. Before long the damaged equipment will be back in the fight again, and it will be almost as good as new.

It looks just like an ordinary jeep. But it isn't. It's a new welder jeep with a specially perfected G-E arc welder designed to make emergency repairs right on the field of battle. The welding unit takes the place of the right front seat, leaves room for three men to ride, one in front and two in back.



## GHOST PHOTOS

When it gets around in ghostdom that G-E engineers Barnes and Bellinger have developed a photographic technique so sensitive that the invisible can be recorded on film, a line may form at the right.

But this technique was not developed to tickle the vanity of ghosts. Its main function is capturing such minute and elusive elements as air disturbance, a heat wave, or a sound wave and its reflection. It saves many of the calculations once necessary in determining how air goes around turbine blades and plane propellers. *General Electric, Schenectady 5, N. Y.*

**GENERAL**  **ELECTRIC**

953-100C-211

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WAR  
BONDS